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(56) **References Cited**

U.S. PATENT DOCUMENTS

5,558,651 A 9/1996 Crawford et al.
7,534,227 B2* 5/2009 Kulli A61M 5/3273
604/164.08

(Continued)

FOREIGN PATENT DOCUMENTS

EP 2251057 B1 11/2010
GB 2451153 B 1/2009

(Continued)

OTHER PUBLICATIONS

International Search Report for PCT/IB2013/051158 dated Jun. 5,
2013.

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(57)

ABSTRACT

An intravenous catheter apparatus having a needle having a
needle shaft, a needle tip at the distal end of the needle shaft
and a needle hub mounted to the proximal end of the needle
shaft, an intravenous catheter tube mounted to a catheter hub
and a needle guard movable on the needle shaft. The needle
guard having a base portion having a needle passage extend-
ing in an axial direction from a proximal side of the base
portion through the base portion to a distal side of the base
portion, first and second arms extending substantially in the
axial direction from the distal side of the base portion and a
distal wall which is transversely arranged at a distal region
of the first arm. A recess is provided in the needle guard that
receives a stopping element for stopping movement of the
needle shaft relative to the needle guard.

23 Claims, 6 Drawing Sheets

